

## ABSTRACT

An optical disk drive includes an optical disk drive controller that can test the write channels between the controller and the laser diode driver. Using the results of this testing, the optical disk drive controller adjusts the characteristics of the write channel signals provided to the laser diode driver to correct for one or more detected imperfections in the write channel signals. Both the optical disk drive controller and the laser diode driver have communications ports to facilitate communication. The optical disk drive controller programs the operating characteristics of the laser diode driver so that the laser diode driver can be optimized for the measured characteristics of the write channels.